

## BYSON Machine Id VOLVO PENTA A1070687 Component Center Diesel Engine Fluid

## CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)

CHEVRON DELO 400 MOLTIGRADE 15W40 (	· GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		VPA062419		
	Sample Date		Client Info		15 Jul 2024		
	Machine Age	hrs	Client Info		287		
	Oil Age	hrs	Client Info		38		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>80	56		
	Chromium	ppm	ASTM D5185m	>6	3		
	Nickel	ppm	ASTM D5185m	>2	3		
	Titanium	ppm	ASTM D5185m	>2	0		
	Silver	ppm	ASTM D5185m	>2	<1		
	Aluminum	ppm	ASTM D5185m	>20	17		
	Lead	ppm	ASTM D5185m	>95	4		
	Copper	ppm	ASTM D5185m	>85	19		
	Tin	ppm	ASTM D5185m	>9	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon			. 05	10		
CONTAMINATION	Potassium	ppm	ASTM D5185m ASTM D5185m		10 6		
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method	>20			
	Water		WC Method		<1.0 NEG		
			WC Method	>0.1	NEG		
	Glycol Soot %	%	*ASTM D7844		0.7		
	Nitration		*ASTM D7644	. 00			
		Abs/cm		>20	8.0		
	Sulfation	Abs/.1mm	*ASTM D7415		19.7		
	Silt	scalar	*Visual	NONE	NONE		
	Debris Sand/Dirt	scalar	*Visual	NONE	NONE		
		scalar	*Visual	NONE	NONE NORML		
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML		
	Emulsified Water				NEG		
		scalar	*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
	Boron	ppm	ASTM D5185m		70		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		15		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		833		
	Calcium	ppm	ASTM D5185m		1310		
	Phosphorus	ppm	ASTM D5185m	1360	828		
	Zinc	ppm	ASTM D5185m		1015		
	Sulfur	ppm	ASTM D5185m		3633		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5		
	Base Number (BN)				8.0		
		- 01	AOTM D445	45.4			

Visc @ 100°C cSt

14.7

ASTM D445 15.1



Sample No. Received 4300 11th Ave. NW : VPA062419 : 18 Jul 2024 Lab Number : 06240022 Tested SEATTLE, WA : 19 Jul 2024 Unique Number : 11128856 Diagnosed : 19 Jul 2024 - Sean Felton US 98107 Test Package : MOB 1 (Additional Tests: TBN) Contact: WILLOW YANARELLA Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. service@coastalmarineengine.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (206)784-3703 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (206)784-8823